Mehtab Nasir

Software engineer and founder in Lahore, Pakistan.

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mehtabnasir.com

Experience

Co-founder, Engineering and Accounts, LEPUS

August 2026 to present. Lahore, Pakistan (remote)

An Amazon FBA business with US and UK entities.

- Built LEPUS OS, the accounting and inventory system behind the business (TypeScript, Node.js, Next.js, React, PostgreSQL), with Amazon SP-API synchronisation that resumes from checkpoints instead of duplicating records.
- Implemented batch level FIFO landed costing: freight and import duty are allocated to individual stock batches, and inventory is held as an asset until sale, so every SKU's margin includes product, freight and duty cost.
- Built settlement reconciliation that splits each payout into sales, refunds, fees, adjustments and reserves, and compares it with what the recorded events say it should be.
- Recorded refunds as financial events and physical returns separately, only with evidence, so a refunded unit never goes back into stock by assumption.
- Amounts in other currencies are converted using only the exchange rate actually applied, never an estimate.
- LEPUS OS has 82 passing automated tests.

Undergraduate Researcher, Computer Vision and Urban Mobility, Georgia Institute of Technology

October 2023 to May 2026. Atlanta, Georgia

- Raised crosswalk detection accuracy on noisy, low resolution aerial imagery from a 25% baseline to 60% by rebuilding the training dataset and refining the ML pipeline.
- Worked across three research threads (crosswalk detection, accessible navigation, pedestrian infrastructure cost modelling), carried out multi-city field data collection, and built tools estimating equipment, labour and travel costs.
- Built reproducible reporting and visualisation workflows used by a multidisciplinary research team.

AI/ML Intern, NETSOL Technologies (NASDAQ: NTWK), Lahore, May to July 2024. Built and deployed an LLM based resume screening service.

Education

BS Computer Science, Georgia Institute of Technology

May 2026. Atlanta, Georgia

Coursework: Data Structures and Algorithms, Machine Learning, Computer Vision, Computer Graphics, Database Systems, Human Computer Interaction, Cognitive Science.